PRELIMINARY GEOLOGIC MAP OF THE SLOAN QUADRANGLE, CLARK COUNTY, NEVADA

Nicholas H. Hinz, Alan R. Ramelli, and Seth Dee

Nevada Bureau of Mines and Geology, University of Nevada, Reno

2015

ANTHROPOGENIC FEATURES AND DEPOSITS

- Qx — Anthropogenic deposits

QUATERNARY DEPOSITS

- Qa — Young alluvium
- Qfy — Young alluvium, undivided
  - Qfy_1 — Late to middle Holocene alluvium
  - Qfy_2 — Early Holocene to late Pleistocene alluvium
- Qfi — Intermediate-aged alluvium
- Qfo — Older alluvium
- QTf — Early Pleistocene to late Pliocene alluvium
- Qls — Landslide deposits
- QTls — Older landslide deposits

TERTIARY INTRUSIVE ROCKS

- Tdi_1 — Dacite hypabyssal intrusion
- Tdi_2 — Dacite dike
- Tai — Andesite plugs
- Tbai — Basaltic andesite dike

TERTIARY VOLCANIC AND SEDIMENTARY ROCKS

- Tf — Fanglomerate
- Td_3 — Young porphyritic dacite
- Tpa — Finely porphyritic andesite
- Ta — Aphanitic andesite
- Tvc — Andesite cinders
- Td_1 — Old porphyritic dacite
- Tb — Porphyritic basalt
- Tba — Sparsely porphyritic basaltic andesite
- Tmd — Tuff of Mount Davis
- Tbs — Tuff of Bridge Spring
- Tob — Olivine basalt
- Tpba — Pyroxene basaltic andesite
- Tg — Fluvial gravels, undivided
  - Tgx — Crystalline gravels, undivided
    - Tgxu — Upper crystalline gravels
    - Tgxm — Middle crystalline gravels
    - Tgxl — Lower crystalline gravels
  - Tgc — Carbonate gravels, undivided
    - Tgcu — Upper carbonate gravels
    - Tgcm — Middle carbonate gravels
    - Tgcl — Lower carbonate gravels
  - Ts — Sandstone

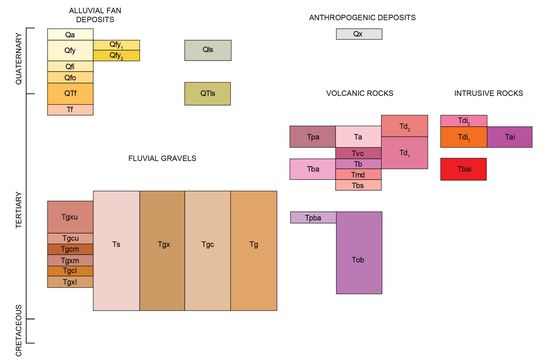
PALEOZOIC SEDIMENTARY ROCKS (Devonian to Permian)

Bird Spring Formation (Early Permian to Late Mississippian)

- PMbs — Bird Spring Formation, undivided
  - PMbsd — Bird Spring Formation, unit D
  - PMbsc — Bird Spring Formation, unit C
  - PMbsb — Bird Spring Formation, unit B
  - PMbsa — Bird Spring Formation, unit A

Monte Cristo Group (Late to Early Mississippian)

- Mmy — Yellowpine Limestone
- Mmb — Bullion Limestone
- Mma — Anchor Limestone
- Mmd — Dawn Limestone
- MDcp — Crystal Pass Limestone (Early Mississippian to Late Devonian)
- Ds — Sultan Limestone (Middle and Early Devonian)



Contact Dashed where approximate, dotted where concealed; queried if identity or existence uncertain.

Normal fault Dashed where approximate, dotted where concealed; queried if identity or existence uncertain. Ball on downthrown side. Arrows show oblique motion.

Thrust fault Dashed where approximate. Sawteeth on upper plate.

Reverse fault Dashed where approximate. Rectangles on upthrown block. Arrows show oblique motion.

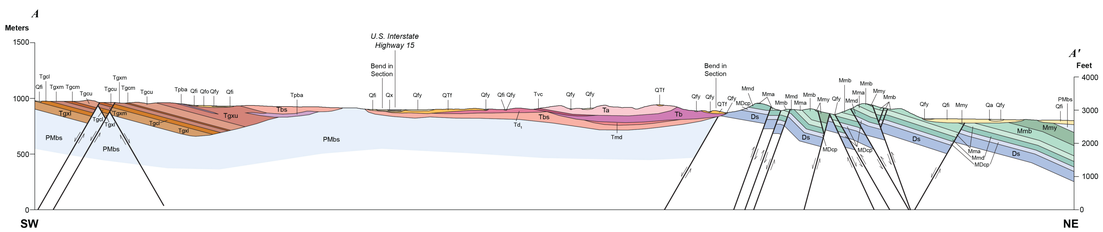
Dike Approximatley located. Locally showing dip.

Strike and dip of bedding
Inclined · Horizontal

Strike and dip of foliation in igneous rocks
Inclined

Strike and dip of compaction foliation in ash-flow tuff
Inclined · Horizontal

Line of cross section



Scale 1:24,000

0 0.5 1 kilometer

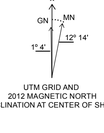
0 0.5 1 mile

0 1000 2000 3000 4000 5000 feet

CONTOUR INTERVAL 40 FEET

Projection: Universal Transverse Mercator, Zone 11, North American Datum 1983 (m)

Base map: U.S. Geological Survey Sloan 7.5' quadrangle (2015)



UTM GRID AND
2012 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

Adjoining 7.5' quadrangle names

1	2	3
4	Sloan	6
7	8	9

1 Blue Diamond SE
2 Las Vegas SW
3 Las Vegas SE
4 Bird Spring
5 Sloan
6 Sloan NE
7 Jean
8 Hidden Valley
9 Sloan SE

Suggested citation:
Hinz, N.H., Ramelli, A.R., and Dee, S., 2015, Preliminary geologic map of the Sloan quadrangle, Clark County, Nevada: Nevada Bureau of Mines and Geology Open-File Report 15-7, scale 1:24,000, 4 p.

See accompanying text for full unit descriptions and references for this map.

Nevada Bureau of Mines and Geology
Mackay School of Earth Sciences and Engineering
College of Science
University of Nevada, Reno

Field work done in 2015
Supported by the U.S. Geological Survey STATEMAP Program
(Agreement No. G14AC00237)

DRAFT
Preliminary geologic map
Has not undergone office, field review, or full editing
Will be revised before publication

Compilation by Nicholas H. Hinz, Alan R. Ramelli, and Seth Dee
Cartography and map production in ESRI ArcGIS v10.1 (ArcGeology v1.3) by Rachel E. Micander
First Edition, September, 2015
Symbology (per FGDC-STD-013-2006)
Printed by Nevada Bureau of Mines and Geology

This map was printed on an electronic plotter directly from digital files. Dimensional calibration may vary between electronic plotters and X and Y directions on the same plotter, and paper may change size, therefore, scale and proportions may not be exact on copies of this map.

For sale by:
Nevada Bureau of Mines and Geology
2175 Raggio Pkwy.
Reno, Nevada 89512
ph. (775) 682-8766
www.nbmg.unr.edu; nbmg@unr.edu

2424